

HEWLETT-PACKARD COMPANY
Intellectual Property Administration
P. O. Box 272400
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PATENT APPLICATION

ATTORNEY DOCKET NO. 10001844-1

IN THE
UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s): Lowell E. Kolb et al.

Confirmation No.: 2624

Application No.: 09/813,257

Examiner: Vu, Quynh Nhu H

Filing Date: 03/19/2001

Group Art Unit: 2841

Title: FILLER MATERIAL AND PRETREATMENT OF PRINTED CIRCUIT BOARD COMPONENTS
TO FACILITATE APPLICATION OF CONFORMAL EMI COATING

COMMISSIONER FOR PATENTS
Washington, D.C. 20231

TRANSMITTAL LETTER FOR RESPONSE/AMENDMENT

Sir:

Transmitted herewith is/are the following in the above-identified application:

- (X) Response/Amendment () Petition to extend time to respond
() New fee as calculated below () Supplemental Declaration
(X) No additional fee (Address envelope to "Box Non-Fee Amendments")
() Other: (fee \$)

CLAIMS AS AMENDED BY OTHER THAN A SMALL ENTITY						
(1) FOR	(2) CLAIMS REMAINING AFTER AMENDMENT	(3) NUMBER EXTRA	(4) HIGHEST NUMBER PREVIOUSLY PAID FOR	(5) PRESENT EXTRA	(6) RATE	(7) ADDITIONAL FEES
TOTAL CLAIMS	20	MINUS	20	= 0	X \$18	\$ 0
INDEP. CLAIMS	3	MINUS	3	= 0	X \$84	\$ 0
[] FIRST PRESENTATION OF A MULTIPLE DEPENDENT CLAIM					+ \$280	\$ 0
EXTENSION FEE	1ST MONTH \$110.00	2ND MONTH \$400.00	3RD MONTH \$920.00	4TH MONTH \$1440.00	\$ 0	
OTHER FEES						\$
TOTAL ADDITIONAL FEE FOR THIS AMENDMENT						\$ 0

Charge \$ 0 to Deposit Account 08-2025. At any time during the pendency of this application, please charge any fees required or credit any overpayment to Deposit Account 08-2025 pursuant to 37 CFR 1.25. Additionally please charge any fees to Deposit Account 08-2025 under 37 CFR 1.16 through 1.21 inclusive, and any other sections in Title 37 of the Code of Federal Regulations that may regulate fees. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

Lowell E. Kolb et al.

By

Michael G. Verga, Esq.

Attorney/Agent for Applicant(s)
Reg. No. 39,410

Date: 03/05/02

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, Washington, D.C. 20231.

Date of Deposit: 03/05/02

Typed Name: Michael G. Verga

Signature:

Telephone No.: (617) 244-0490

Rev 10/01 (TransAm)

Attach as First Page to Transmitted Papers

Received from <6172440896> at 3/21/02 5:31:53 AM [Eastern Standard Time]

Michael G. Verga, Esq.
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FAX COVER SHEET

DATE: March 5, 2002

Number of Pages (including Cover Sheet):		15
TO:	Examiner Patel	
COMPANY:	U.S. Patent and Trademark Office	
FROM:	Michael G. Verga	
PHONE NUMBER:	703-305-2617	
FAX NUMBER:	703-746-4348	

ORIGINAL DOCUMENTS WILL BE SENT:
☐ Priority Mail ☐ Overnight ☐ Air Mail ☒ Not Sent

COMMENTS:

Application 09/813,257

Examiner Patel:

Per our conversation this past week, following is a copy of the Response that I believe was filed on March 5, 2002. As I noted, I may have filed an incorrect version that indicated the wrong number of claims and presented amendments to claims that did not exist. If so, please replace the one filed on 3/5 with the following amendment. If the following amendment was indeed filed on 3/5, then please disregard the one that follows.

Thanks, and please give me a call should there be any questions.
/Michael

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ATTORNEY'S DOCKET NO: 10001844-1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Lowell E. Kolb *et al.*
Serial No.: 09/813,257
Filed: 03/19/2001
For: FILLER MATERIAL AND PRETREATMENT OF PRINTED CIRCUIT
BOARD COMPONENTS TO FACILITATE APPLICATION
OF A CONFORMAL EMI SHIELD

Examiner: Vu, Quynh Nhu H
Art Unit: 2841

CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.8(a)

The undersigned hereby certifies that this document is being placed in the United States mail with first-class postage attached, addressed to Commissioner for Patents, Washington, D.C. 20231, on the 5th day of MARCH, 2002.


Signature

Box Non-Fee Amendment
Commissioner for Patents
Washington, D.C. 20231

RESPONSE & AMENDMENT UNDER 37 CFR §1.115

Dear Sir:

In response to the Office Action mailed December 06, 2001 (PTO Prosecution Paper No. 5), Applicants submits the following Amendments and Remarks.

It is not believed that extension for time or fees for net addition of claims are required, beyond those which may otherwise be provided for in documents accompanying this paper. However, if additional extensions of time are necessary to allow consideration of this paper, then such extensions of time are hereby petitioned under 37 C.F.R. 1.136(a), and any fees required therefore, including fees for net addition of claims, are hereby authorized to be charged to Deposit Account No. 08/2025.

Application: 09/813
Attorney Docket: 100012-1

Response to Action
dated 12/06/01

AMENDMENTS

Please amend the above-identified application as follows:

In the Claims

Please cancel claim 2 without prejudice or disclaimer.

Please substitute the following claims 1, 3, 4, 5, 8, 11, 12, 14, 15 and 16 for claims of the same number previously pending.

1. (Amended) A printed circuit board comprising:

- A1* *Sol B1*
- a printed wiring board;
 - a plurality of components mounted on said printed wiring board, wherein the printed circuit board has a cavity with one or more openings to the surface of the printed circuit board; and
 - an electrically non-conductive filler material disposed in the cavity and on the surface of the printed circuit board immediately surrounding the cavity so as to bridge across the one or more cavity openings and to at least partially infill the cavity, wherein the cavity is substantially inaccessible to subsequently-applied coatings.

A2 *Sol B2*

3. (Amended) The printed circuit board of claim 1, wherein the cavity comprises:
a volume of space defined by the leads of a component, the component body and the printed wiring board, wherein the volume of space has a plurality of openings to the surface of the printed circuit board between neighboring component leads.

4. (Amended) The printed circuit board of claim 1, wherein the cavity comprises:
a volume of space between neighboring components mounted on the printed wiring board.

5. (Amended) The printed circuit board of claim 1, wherein the cavity comprises:
a volume of space between a component mounted on the printed wiring board and the printed wiring board.